SEQUENCE LISTING

<110> INCYTE GENOMICS, INC.
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<120> RECEPTORS AND ASSOCIATED PROTEINS

<130> PF-0726 PCT

<140> To Be Assigned
<141> Herewith

<150> 60/145,232; 60/158,578; 60/165,192
<151> 1999-07-21; 1999-10-07; 1999-11-12

<160> 44
<170> PERL Program

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Gly Glu Gln Ala Ser Glu Lys Asn Glu Cys Ile Ser Glu Asp Met
             35                  40                  45
Gly Asp Glu Asp Lys Glu Glu Arg Gln Glu Ser Arg Ala Ser Asp
             50                  55                  60
Trp His Ser Lys Thr Lys Asp Phe Gln Glu Ser Ser Ile Lys Ser
             65                  70                  75
Leu Lys Glu Lys Leu Leu Leu Glu Glu Glu Pro Thr Thr Ser His
             80                  85                  90
Gly Gln Ser Ser Gln Gly Ile Val Glu Glu Thr Ser Glu Glu Gly
             95                 100                 105
Asn Ser Val Pro Ala Ser Gln Ser Val Ala Ala Leu Thr Ser Lys
            110                 115                 120
Arg Ser Leu Val Leu Met Pro Glu Ser Ser Ala Glu Glu Ile Thr
            125                 130                 135
Val Cys Pro Glu Thr Gln Leu Ser Ser Ser Glu Thr Phe Asp Leu
            140                 145                 150
Glu Arg Glu Val Ser Pro Gly Ser Arg Asp Ile Leu Asp Gly Val
            155                 160                 165
Arg Ile Ile Met Ala Asp Lys Glu Val Gly Asn Lys Glu Asp Ala
            170                 175                 180
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Glu Lys Glu Val Ala Ile Ser Thr Phe Ser Ser Ser Asn Gln Val
185 190 195
Ser Cys Pro Leu Cys Asp Gln Cys Phe Pro Pro Thr Lys Ile Glu
200 205 210
Arg His Ala Met Tyr Cys Asn Gly Leu Met Glu Glu Asp Thr Val
215 220 225
Leu Thr Arg Arg Gln Lys Glu Ala Lys Thr Lys Ser Asp Ser Gly
230 235 240
Thr Ala Ala Gln Thr Ser Leu Asp Ile Asp Lys Asn Glu Lys Cys
245 250 255
Tyr Leu Cys Lys Ser Leu Val Pro Phe Arg Glu Tyr Gln Cys His
260 265 270
Val Asp Ser Cys Leu Gln Leu Ala Lys Ala Asp Gln Gly Asp Gly
275 280 285
Pro Glu Gly Ser Gly Arg Ala Cys Ser Thr Val Glu Gly Lys Trp
290 295 300
Gln Gln Arg Leu Lys Asn Pro Lys Glu Lys Gly His Ser Glu Gly
305 310 315
Arg Leu Leu Ser Phe Leu Glu Gln Ser Glu His Lys Thr Ser Asp
320 325 330
Ala Asp Ile Lys Ser Ser Glu Thr Gly Ala Phe Arg Val Pro Ser
335 340 345
Pro Gly Met Glu Glu Ala Gly Cys Ser Arg Glu Met Gln Ser Ser
350 355 360
Phe Thr Arg Arg Asp Leu Asn Glu Ser Pro Val Lys Ser Phe Val
365 370 375
Ser Ile Ser Glu Ala Thr Asp Cys Leu Val Asp Phe Lys Lys Gln
380 385 390
Val Thr Val Gln Pro Gly Ser Arg Thr Arg Thr Lys Ala Gly Arg
395 400 405
Gly Arg Arg Arg Lys Phe
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1 5 10 15
Thr Ala Val Asp Phe Leu Pro Val Met Val His Arg Leu Pro Val
20 25 30
Phe Lys Arg Tyr Met Gly Asn Thr Pro Gln Lys Lys Ala Val Phe
35 40 45
Gly Gln Cys Arg Gly Leu Pro Cys Val Ala Pro Leu Leu Thr Thr
50 55 60
Val Glu Glu Ala Pro Arg Gly Ile Ser Ala Arg Val Trp Gly His
65 70 75
Phe Pro Lys Trp Leu Asn Gly Ser Leu Leu Arg Ile Gly Pro Gly
80 85 90
Lys Phe Glu Phe Gly Lys Asp Lys Tyr Asn His Trp Phe Asp Gly
95 100 105
Met Ala Leu Leu His Gln Phe Arg Met Ala Lys Gly Thr Val Thr
110 115 120
Tyr Arg Ser Lys Phe Leu Gln Ser Asp Thr Tyr Lys Ala Asn Ser
125 130 135
Ala Lys Asn Arg Ile Val Ile Ser Glu Phe Gly Thr Leu Ala Leu
140 145 150
Pro Asp Pro Cys Lys Asn Val Phe Glu Arg Phe Met Ser Arg Phe
155 160 165

Glu Leu Pro Gly Lys Ala Ala Ala Met Thr Asp Asn Thr Asn Val
170 175 180
Asn Tyr Val Arg Tyr Lys Gly Asp Tyr Tyr Leu Cys Thr Glu Thr
185 190 195
Asn Phe Met Asn Lys Val Asp Ile Glu Thr Leu Glu Lys Thr Glu
200 205 210
Lys Val Asp Trp Ser Lys Phe Ile Ala Val Asn Gly Ala Thr Ala
215 220 225
His Pro His Tyr Asp Pro Asp Gly Thr Ala Tyr Asn Met Gly Asn
230 235 240
Ser Phe Gly Pro Tyr Gly Phe Ser Tyr Lys Val Ile Arg Val Pro
245 250 255
Pro Glu Lys Val Asp Leu Gly Glu Thr Ile His Gly Val Gln Val
260 265 270
Ile Cys Ser Ile Ala Ser Thr Glu Lys Gly Lys Pro Ser Tyr Tyr
275 280 285
His Ser Phe Gly Met Thr Arg Asn Tyr Ile Ile Phe Ile Glu Gln
290 295 300
Pro Leu Lys Met Asn Leu Trp Lys Ile Ala Thr Ser Lys Ile Arg
305 310 315
Gly Lys Ala Phe Ser Asp Gly Ile Ser Trp Glu Pro Gln Cys Asn
320 325 330
Thr Arg Phe His Val Val Glu Lys Arg Thr Gly Gln Leu Leu Pro
335 340 345
Gly Arg Tyr Tyr Ser Lys Pro Phe Val Thr Phe His Gln Ile Asn
350 355 360
Ala Phe Glu Asp Gln Gly Cys Val Ile Ile Asp Leu Cys Ser Gln
365 370 375
Asp Asn Gly Arg Thr Leu Glu Val Tyr Gln Leu Gln Asn Leu Arg
380 385 390
Lys Ala Gly Glu Gly Leu Asp Gln Val His Asn Ser Ala Ala Lys
395 400 405
Ser Phe Pro Arg Arg Phe Val Leu Pro Leu Asn Val Ser Leu Asn
410 415 420
Ala Pro Glu Gly Asp Asn Leu Ser Pro Leu Ser Tyr Thr Ser Ala
425 430 435
Ser Ala Val Lys Gln Ala Asp Gly Thr Ile Trp Cys Ser His Glu
440 445 450
Asn Leu His Gln Glu Asp Leu Glu Lys Glu Gly Gly Ile Glu Phe
455 460 465
Pro Gln Ile Tyr Tyr Asp Arg Phe Ser Gly Lys Lys Tyr His Phe
470 475 480
Phe Tyr Gly Cys Gly Phe Arg His Leu Val Gly Asp Ser Leu Ile
485 490 495
Lys Val Asp Val Val Asn Lys Thr Leu Lys Val Trp Arg Glu Asp
500 505 510
Gly Phe Tyr Pro Ser Glu Pro Val Phe Val Pro Ala Pro Gly Thr
515 520 525
Asn Glu Glu Asp Gly Gly Val Ile Leu Ser Val Val Ile Thr Pro
530 535 540
Asn Gln Asn Glu Ser Asn Phe Leu Leu Val Leu Asp Ala Lys Asn
545 550 555
Phe Glu Glu Leu Gly Arg Ala Glu Val Pro Val Gln Met Pro Tyr
560 565 570
Gly Phe His Gly Thr Phe Ile Pro Ile
575

<210> 3
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1 5 10 15
Ser Pro Leu Thr Ala Phe Leu Lys Leu Thr Ser Leu Gly Phe Ile
20 25 30
Ile Gly Val Ser Val Val Gly Asn Leu Leu Ile Ser Ile Leu Leu
35 40 45
Val Lys Asp Lys Thr Leu His Arg Ala Pro Tyr Tyr Phe Leu Leu
50 55 60
Asp Leu Cys Cys Ser Asp Ile Leu Arg Ser Ala Ile Cys Phe Pro
65 70 75
Phe Val Phe Asn Ser Val Lys Asn Gly Ser Thr Trp Thr Tyr Gly
80 85 90
Thr Leu Thr Cys Lys Val Ile Ala Phe Leu Gly Val Leu Ser Cys
95 100 105
Phe His Thr Ala Phe Met Leu Phe Cys Ile Ser Val Thr Arg Tyr
110 115 120
Leu Ala Ile Ala His His Arg Phe Tyr Thr Lys Arg Leu Thr Phe
125 130 135
Trp Thr Cys Leu Ala Val Ile Cys Met Val Trp Thr Leu Ser Val
140 145 150
Ala Met Ala Phe Pro Pro Val Leu Asp Val Gly Thr Tyr Ser Phe
155 160 165
Ile Arg Glu Lys Asp Gln Cys Thr Phe Gln His Arg Ser Phe Arg
170 175 180
Ala Asn Asp Ser Leu Gly Phe Met Leu Leu Leu Ala Leu Ile Leu
185 190 195
Leu Ala Thr Gln Leu Val Tyr Leu Lys Leu Ile Phe Phe Val His
200 205 210
Asp Arg Arg Lys Met Lys Pro Val Gln Phe Val Ala Ala Val Ser
215 220 225
Gln Asn Trp Thr Phe His Gly Pro Gly Ala Ser Gly Gln Ala Ala
230 235 240
Ala Asn Trp Leu Ala Gly Phe Gly Arg Gly Pro Thr Pro Pro Thr
245 250 255
Leu Leu Gly Ile Arg Gln Asn Ala Asn Thr Thr Gly Arg Arg Arg
260 265 270
Leu Leu Val Leu Asp Glu Phe Lys Met Glu Lys Arg Ile Ser Arg
275 280 285
Met Phe Tyr Ile Met Thr Phe Leu Phe Leu Thr Leu Trp Gly Pro
290 295 300
Tyr Leu Val Ala Cys Tyr Trp Arg Val Phe Ala Arg Gly Pro Val
305 310 315
Val Pro Gly Gly Phe Leu Thr Ala Ala Val Trp Met Ser Phe Ala
320 325 330
Gln Ala Gly Ile Asn Pro Phe Val Cys Ile Phe Ser Asn Arg Glu
335 340 345
Leu Arg Arg Cys Phe Ser Thr Thr Leu Leu Tyr Cys Arg Lys Ser
350 355 360
Arg Leu Pro Arg Glu Pro Tyr Cys Val Ile
365 370

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<211> 267
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<213> Homo sapiens

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Met Ala Pro Trp Ala Leu Leu Ser Pro Gly Val Leu Val Arg Thr
1 5 10 15
Gly His Thr Val Leu Thr Trp Gly Ile Thr Leu Val Leu Phe Leu

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<211> 951
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2470285CD1

<400> 5
Met Pro Gly Pro Leu Gly Leu Leu Cys Phe Leu Ala Leu Gly Leu
1 5 10 15
Leu Gly Ser Ala Gly Pro Ser Gly Ala Ala Pro Pro Leu Cys Ala
20 25 30
Ala Pro Cys Ser Cys Asp Gly Asp Arg Arg Val Asp Cys Ser Gly
35 40 45
Lys Gly Leu Thr Ala Val Pro Glu Gly Leu Ser Ala Phe Thr Gln
50 55 60
Ala Leu Asp Ile Ser Met Asn Asn Ile Thr Gln Leu Pro Glu Asp
65 70 75
Ala Phe Lys Asn Phe Pro Phe Leu Glu Glu Leu Gln Leu Ala Gly
80 85 90
Asn Asp Leu Ser Phe Ile His Pro Lys Ala Leu Ser Gly Leu Lys
95 100 105
Glu Leu Lys Val Leu Thr Leu Gln Asn Asn Gln Leu Lys Thr Val
110 115 120
Pro Ser Glu Ala Ile Arg Gly Leu Ser Ala Leu Gln Ser Leu Arg
125 130 135
Leu Asp Ala Asn His Ile Thr Ser Val Pro Glu Asp Ser Phe Glu
140 145 150
Gly Leu Val Gln Leu Arg His Leu Trp Leu Asp Asp Asn Ser Leu

155 160 165
Thr Glu Val Pro Val His Pro Leu Ser Asn Leu Pro Thr Leu Gln
170 175 180
Ala Leu Thr Leu Ala Leu Asn Lys Ile Ser Ser Ile Pro Asp Phe
185 190 195
Ala Phe Thr Asn Leu Ser Ser Leu Val Val Leu His Leu His Asn
200 205 210
Asn Lys Ile Arg Ser Leu Ser Gln His Cys Phe Asp Gly Leu Asp
215 220 225
Asn Leu Glu Thr Leu Asp Leu Asn Tyr Asn Asn Leu Gly Glu Phe
230 235 240
Pro Gln Ala Ile Lys Ala Leu Pro Ser Leu Lys Glu Leu Gly Phe
245 250 255
His Ser Asn Ser Ile Ser Val Ile Pro Asp Gly Ala Phe Asp Gly
260 265 270
Asn Pro Leu Leu Arg Thr Ile His Leu Tyr Asp Asn Pro Leu Ser
275 280 285
Phe Val Gly Asn Ser Ala Phe His Asn Leu Ser Asp Leu His Ser
290 295 300
Leu Val Ile Arg Gly Ala Ser Met Val Gln Gln Phe Pro Asn Leu
305 310 315
Thr Gly Thr Val His Leu Glu Ser Leu Thr Leu Thr Gly Thr Lys
320 325 330
Ile Ser Ser Ile Pro Asn Asn Leu Cys Gln Glu Gln Lys Met Leu
335 340 345
Arg Thr Leu Asp Leu Ser Tyr Asn Asn Ile Arg Asp Leu Pro Ser
350 355 360
Phe Asn Gly Cys His Ala Leu Glu Glu Ile Ser Leu Gln Arg Asn
365 370 375
Gln Ile Tyr Gln Ile Lys Glu Gly Thr Phe Gln Gly Leu Ile Ser
380 385 390
Leu Arg Ile Leu Asp Leu Ser Arg Asn Leu Ile His Glu Ile His
395 400 405
Ser Arg Ala Phe Ala Thr Leu Gly Pro Ile Thr Asn Leu Asp Val
410 415 420
Ser Phe Asn Glu Leu Thr Ser Phe Pro Thr Glu Gly Leu Asn Gly
425 430 435
Leu Asn Gln Leu Lys Leu Val Gly Asn Phe Lys Leu Lys Glu Ala
440 445 450
Leu Ala Ala Lys Asp Phe Val Asn Leu Arg Ser Leu Ser Val Pro
455 460 465
Tyr Ala Tyr Gln Cys Cys Ala Phe Trp Gly Cys Asp Ser Tyr Ala
470 475 480
Asn Leu Asn Thr Glu Asp Asn Ser Leu Gln Asp His Ser Val Ala
485 490 495
Gln Glu Lys Gly Thr Ala Asp Ala Ala Asn Val Thr Ser Thr Leu
500 505 510
Glu Asn Glu Glu His Ser Gln Ile Ile Ile His Cys Thr Pro Ser
515 520 525
Thr Gly Ala Phe Lys Pro Cys Glu Tyr Leu Leu Gly Ser Trp Met
530 535 540
Ile Arg Leu Thr Val Trp Phe Ile Phe Leu Val Ala Leu Phe Phe
545 550 555
Asn Leu Leu Val Ile Leu Thr Thr Phe Ala Ser Cys Thr Ser Leu
560 565 570
Pro Ser Ser Lys Leu Phe Ile Gly Leu Ile Ser Val Ser Asn Leu
575 580 585
Phe Met Gly Ile Tyr Thr Gly Ile Leu Thr Phe Leu Asp Ala Val
590 595 600
Ser Trp Gly Arg Phe Ala Glu Phe Gly Ile Trp Trp Glu Thr Gly
605 610 615
Ser Gly Cys Lys Val Ala Gly Phe Leu Ala Val Phe Ser Ser Glu
620 625 630
Ser Ala Ile Phe Leu Leu Met Leu Ala Thr Val Glu Arg Ser Leu

635 640 645
Ser Ala Lys Asp Ile Met Lys Asn Gly Lys Ser Asn His Leu Lys
650 655 660
Gln Phe Arg Val Ala Ala Leu Leu Ala Phe Leu Gly Ala Thr Val
665 670 675
Ala Gly Cys Phe Pro Leu Phe His Arg Gly Glu Tyr Ser Ala Ser
680 685 690
Pro Leu Cys Leu Pro Phe Pro Thr Gly Glu Thr Pro Ser Leu Gly
695 700 705
Phe Thr Val Thr Leu Val Leu Leu Asn Ser Leu Ala Phe Leu Leu
710 715 720
Met Ala Val Ile Tyr Thr Lys Leu Tyr Cys Asn Leu Glu Lys Glu
725 730 735
Asp Leu Ser Glu Asn Ser Gln Ser Ser Met Ile Lys His Val Ala
740 745 750
Trp Leu Ile Phe Thr Asn Cys Ile Phe Phe Cys Pro Val Ala Phe
755 760 765
Phe Ser Phe Ala Pro Leu Ile Thr Ala Ile Ser Ile Ser Pro Glu
770 775 780
Ile Met Lys Ser Val Thr Leu Ile Phe Phe Pro Leu Pro Ala Cys
785 790 795
Leu Asn Pro Val Leu Tyr Val Phe Phe Asn Pro Lys Phe Lys Glu
800 805 810
Asp Trp Lys Leu Leu Lys Arg Arg Val Thr Lys Lys Ser Gly Ser
815 820 825
Val Ser Val Ser Ile Ser Ser Gln Gly Gly Cys Leu Glu Gln Asp
830 835 840
Phe Tyr Tyr Asp Cys Gly Met Tyr Ser His Leu Gln Gly Asn Leu
845 850 855
Thr Val Cys Asp Cys Cys Glu Ser Phe Leu Leu Thr Lys Pro Val
860 865 870
Ser Cys Lys His Leu Ile Lys Ser His Ser Cys Pro Ala Leu Ala
875 880 885
Val Ala Ser Cys Gln Arg Pro Glu Gly Tyr Trp Ser Asp Cys Gly
890 895 900
Thr Gln Ser Ala His Ser Asp Tyr Ala Asp Glu Glu Asp Ser Phe
905 910 915
Val Ser Asp Ser Ser Asp Gln Val Gln Ala Cys Gly Arg Ala Cys
920 925 930
Phe Tyr Gln Ser Arg Gly Phe Pro Leu Val Arg Tyr Ala Tyr Asn
935 940 945
Leu Pro Arg Val Lys Asp
950

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<211> 413
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
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<400> 6
Met Gly Thr Phe Cys Ser Val Ile Lys Phe Glu Asn Leu Gln Glu
1 5 10 15
Leu Lys Arg Leu Cys His Trp Gly Pro Ile Ile Ala Leu Gly Val
20 25 30
Ile Ala Ile Cys Ser Thr Met Ala Met Ile Asp Ser Val Leu Trp
35 40 45
Tyr Trp Pro Leu His Thr Thr Gly Gly Ser Val Asn Phe Ile Met
50 55 60
Leu Ile Asn Trp Thr Val Met Ile Leu Tyr Asn Tyr Phe Asn Ala
65 70 75
Met Phe Val Gly Pro Gly Phe Val Pro Leu Gly Trp Lys Pro Glu

80 85 90
Ile Ser Gln Asp Thr Met Tyr Leu Gln Tyr Cys Lys Val Cys Gln
95 100 105
Ala Tyr Lys Ala Pro Arg Ser His His Cys Arg Lys Cys Asn Arg
110 115 120
Cys Val Met Lys Met Asp His His Cys Pro Trp Ile Asn Asn Cys
125 130 135
Cys Gly Tyr Gln Asn His Ala Ser Phe Thr Leu Phe Leu Leu Leu
140 145 150
Ala Pro Leu Gly Cys Ile His Ala Ala Phe Ile Phe Val Met Thr
155 160 165
Met Tyr Thr Gln Leu Tyr His Arg Leu Ser Phe Gly Trp Asn Thr
170 175 180
Val Lys Ile Asp Met Ser Ala Ala Arg Arg Asp Pro Leu Pro Ile
185 190 195
Val Pro Phe Gly Leu Ala Ala Phe Ala Thr Thr Leu Phe Ala Leu
200 205 210
Gly Leu Ala Leu Gly Thr Thr Ile Ala Val Gly Met Leu Phe Phe
215 220 225
Ile Gln Met Lys Ile Ile Leu Arg Asn Lys Thr Ser Ile Glu Ser
230 235 240
Trp Ile Glu Glu Lys Ala Lys Asp Arg Ile Gln Tyr Tyr Gln Leu
245 250 255
Asp Glu Val Phe Val Phe Pro Tyr Asp Met Gly Ser Arg Trp Arg
260 265 270
Asn Phe Lys Gln Val Phe Thr Trp Ser Gly Val Pro Glu Gly Asp
275 280 285
Gly Leu Glu Trp Pro Val Arg Glu Gly Cys His Gln Tyr Ser Leu
290 295 300
Thr Ile Glu Gln Leu Lys Gln Lys Ala Asp Lys Arg Val Arg Ser
305 310 315
Val Arg Tyr Lys Val Ile Glu Asp Tyr Ser Gly Ala Cys Cys Pro
320 325 330
Leu Asn Lys Gly Ile Lys Thr Phe Phe Thr Ser Pro Cys Thr Glu
335 340 345
Glu Pro Arg Ile Gln Leu Gln Lys Gly Glu Phe Ile Leu Ala Thr
350 355 360
Arg Gly Leu Arg Tyr Trp Leu Tyr Gly Asp Lys Ile Leu Asp Asp
365 370 375
Ser Phe Ile Glu Gly Val Ser Arg Ile Arg Gly Trp Phe Pro Arg
380 385 390
Lys Cys Val Glu Lys Cys Pro Cys Asp Ala Glu Thr Asp Gln Ala
395 400 405
Pro Glu Gly Glu Lys Lys Asn Arg
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<213> Homo sapiens

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1 5 10 15
Gly Glu Glu Thr Leu Arg Val Gly Asp Cys Ala Val Phe Leu Ser
20 25 30
Ala Gly Arg Pro Asn Leu Pro Tyr Ile Gly Arg Ile Glu Ser Met
35 40 45
Trp Glu Ser Trp Gly Ser Asn Met Val Val Lys Val Lys Trp Phe
50 55 60
Tyr His Pro Glu Glu Thr Lys Leu Gly Lys Arg Gln Cys Asp Gly

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                    65                  70                  75
Lys Asn Ala Leu Tyr Gln Ser Cys His Glu Asp Glu Asn Asp Val
                    80                  85                  90
Gln Thr Ile Ser His Lys Cys Gln Val Val Ala Arg Glu Gln Tyr
                    95                 100                 105
Glu Gln Met Ala Arg Ser Arg Lys Cys Gln Asp Arg Gln Asp Leu
                   110                 115                 120
Tyr Tyr Leu Ala Gly Thr Tyr Asp Pro Thr Thr Gly Arg Leu Val
                   125                 130                 135
Thr Ala Asp Gly Val Pro Ile Leu Cys
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Met Ala Pro Pro Val Arg Leu Glu Arg Pro Phe Pro Ser Arg Arg
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Phe Pro Gly Leu Leu Leu Ala Ala Leu Val Leu Leu Leu Ser Ser
                    20                  25                  30
Phe Ser Asp Gln Cys Asn Val Pro Glu Trp Leu Pro Phe Ala Arg
                    35                  40                  45
Pro Thr Asn Leu Thr Asp Asp Phe Glu Phe Pro Ile Gly Thr Tyr
                    50                  55                  60
Leu Asn Tyr Glu Cys Arg Pro Gly Tyr Ser Gly Arg Pro Phe Ser
                    65                  70                  75
Ile Ile Cys Leu Lys Asn Ser Val Trp Thr Ser Ala Lys Asp Lys
                    80                  85                  90
Cys Lys Arg Lys Ser Cys Arg Asn Pro Pro Asp Pro Val Asn Gly
                    95                 100                 105
Met Ala His Val Ile Lys Asp Ile Gln Phe Gly Ser Gln Ile Lys
                   110                 115                 120
Tyr Ser Cys Pro Lys Gly Tyr Arg Leu Ile Gly Ser Ser Ser Ala
                   125                 130                 135
Thr Cys Ile Ile Ser Gly Asn Thr Val Ile Trp Asp Asn Lys Thr
                   140                 145                 150
Pro Val Cys Asp Ser Glu Leu Lys Tyr Ala Phe Leu Phe Leu Leu
                   155                 160                 165
Pro Ile His Ser Asn Phe Ser Leu Glu
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<220>
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<400> 9
Met Gln Leu Asp Trp Asn Gln Ala Gln Lys Ser Gly Asp Pro Gly
  1                 5                  10                  15
Pro Ser Val Val Gly Leu Val Ser Ile Pro Gly Met Gly Lys Leu
                    20                  25                  30
Leu Ala Glu Ala Pro Leu Val Leu Glu Pro Glu Lys Gln Met Leu
                    35                  40                  45
Leu His Glu Thr His Gln Gly Leu Leu Gln Asp Gly Ser Pro Ile
                    50                  55                  60
Leu Leu Ser Asp Val Ile Ser Ala Phe Leu Ser Asn Asn Asp Thr
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                   65                  70                  75
Gln Asn Leu Ser Ser Pro Val Thr Phe Thr Phe Ser His Arg Ser
                   80                  85                  90
Val Ile Pro Arg Gln Lys Val Leu Cys Val Phe Trp Glu His Gly
                   95                 100                 105
Gln Asn Gly Cys Gly His Trp Ala Thr Thr Gly Cys Ser Thr Ile
                  110                 115                 120
Gly Thr Arg Asp Thr Ser Thr Ile Cys Arg Cys Thr His Leu Ser
                  125                 130                 135
Ser Phe Ala Val Leu Met Ala His Tyr Asp Val Gln Glu Glu Asp
                  140                 145                 150
Pro Val Leu Thr Val Ile Thr Tyr Met Gly Leu Ser Val Ser Leu
                  155                 160                 165
Leu Cys Leu Leu Leu Ala Ala Leu Thr Phe Leu Leu Cys Lys Ala
                  170                 175                 180
Ile Gln Asn Thr Ser Thr Ser Leu His Leu Gln Leu Ser Leu Cys
                  185                 190                 195
Leu Phe Leu Ala His Leu Leu Phe Leu Val Gly Ile Asp Arg Thr
                  200                 205                 210
Glu Pro Lys Val Leu Cys Ser Ile Ile Ala Gly Ala Leu His Tyr
                  215                 220                 225
Leu Tyr Leu Ala Ala Phe Thr Trp Met Leu Leu Glu Gly Val His
                  230                 235                 240
Leu Phe Leu Thr Ala Arg Asn Leu Thr Val Val Asn Tyr Ser Ser
                  245                 250                 255
Ile Asn Arg Leu Met Lys Trp Ile Met Phe Pro Val Gly Tyr Gly
                  260                 265                 270
Val Pro Ala Val Thr Val Ala Ile Ser Ala Ala Ser Trp Pro His
                  275                 280                 285
Leu Tyr Gly Thr Ala Asp Arg Cys Trp Leu His Leu Asp Gln Gly
                  290                 295                 300
Phe Met Trp Ser Phe Leu Gly Pro Val Cys Ala Ile Phe Ser Ala
                  305                 310                 315
Asn Leu Val Leu Phe Ile Leu Val Phe Trp Ile Leu Lys Arg Lys
                  320                 325                 330
Leu Ser Ser Leu Asn Ser Glu Val Ser Thr Ile Gln Asn Thr Arg
                  335                 340                 345
Met Leu Ala Phe Lys Ala Thr Ala Gln Leu Phe Ile Leu Gly Cys
                  350                 355                 360
Thr Trp Cys Leu Gly Leu Leu Gln Val Gly Pro Ala Ala Gln Val
                  365                 370                 375
Met Ala Tyr Leu Phe Thr Ile Ile Asn Ser Leu Gln Gly Phe Phe
                  380                 385                 390
Ile Phe Leu Val Tyr Cys Leu Leu Ser Gln Gln Val Gln Lys Gln
                  395                 400                 405
Tyr Gln Lys Trp Phe Arg Glu Ile Val Lys Ser Lys Ser Glu Ser
                  410                 415                 420
Glu Thr Tyr Thr Leu Ser Ser Lys Met Gly Pro Asp Ser Lys Pro
                  425                 430                 435
Ser Glu Gly Asp Val Phe Pro Gly Gln Val Lys Arg Lys Tyr
                  440                 445
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<210> 10
<211> 126
<212> PRT
<213> Homo sapiens

<220>
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<400> 10

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Met Glu Ser Phe Leu Gly Gly Val Leu Leu Ile Leu Trp Leu Gln
  1               5                  10                  15
Val Asp Trp Val Lys Ser Gln Lys Ile Glu Gln Asn Ser Glu Ala
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                  20                  25                  30
Leu Asn Ile Gln Glu Gly Lys Thr Ala Thr Leu Thr Cys Asn Tyr
                  35                  40                  45
Thr Asn Tyr Ser Pro Ala Tyr Leu Gln Trp Tyr Arg Gln Asp Pro
                  50                  55                  60
Gly Arg Gly Pro Val Phe Leu Leu Leu Ile Arg Glu Asn Glu Lys
                  65                  70                  75
Glu Lys Arg Lys Glu Arg Leu Lys Val Thr Phe Asp Thr Thr Leu
                  80                  85                  90
Lys Gln Ser Leu Phe His Ile Thr Ala Ser Gln Pro Ala Asp Ser
                  95                 100                 105
Ala Asn Tyr Leu Cys Ala Leu Gly Gly Arg Gly Thr Asn Ser Pro
                 110                 115                 120
Leu Gly Gln Ala Leu Ser
                 125
<210> 11
<211> 273
<212> PRT
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<220>
<221> misc_feature
<223> Incyte ID No: 1414179CD1

<400> 11
Met Gly Arg Ser Arg Ser Arg Ser Ser Ser Arg Ser Lys His Thr
  1               5                  10                  15
Lys Ser Ser Lys His Asn Lys Lys Arg Ser Arg Ser Arg Ser Arg
                  20                  25                  30
Ser Arg Asp Lys Glu Arg Val Arg Lys Arg Ser Lys Ser Arg Glu
                  35                  40                  45
Ser Lys Arg Asn Arg Arg Arg Glu Ser Arg Ser Arg Ser Arg Ser
                  50                  55                  60
Thr Asn Thr Ala Val Ser Arg Arg Glu Arg Asp Arg Glu Arg Ala
                  65                  70                  75
Ser Ser Pro Pro Asp Arg Ile Asp Ile Phe Gly Arg Thr Val Ser
                  80                  85                  90
Lys Arg Ser Ser Leu Asp Glu Lys Gln Lys Arg Glu Glu Glu Glu
                  95                 100                 105
Lys Lys Ala Glu Phe Glu Arg Gln Arg Lys Ile Arg Gln Gln Glu
                 110                 115                 120
Ile Glu Glu Lys Leu Ile Glu Glu Glu Thr Ala Arg Arg Val Glu
                 125                 130                 135
Glu Leu Val Ala Lys Arg Val Glu Glu Glu Leu Glu Lys Arg Lys
                 140                 145                 150
Asp Glu Ile Glu Arg Glu Val Leu Arg Arg Val Glu Glu Ala Lys
                 155                 160                 165
Arg Ile Met Glu Lys Gln Leu Leu Glu Glu Leu Glu Arg Gln Arg
                 170                 175                 180
Gln Ala Glu Leu Ala Ala Gln Lys Ala Arg Glu Glu Glu Glu Arg
                 185                 190                 195
Ala Lys Arg Glu Glu Leu Glu Arg Ile Leu Glu Glu Asn Asn Arg
                 200                 205                 210
Lys Ile Ala Glu Ala Gln Ala Lys Leu Ala Glu Glu Gln Leu Arg
                 215                 220                 225
Ile Val Glu Glu Gln Arg Lys Ile His Glu Glu Arg Met Lys Leu
                 230                 235                 240
Glu Gln Glu Arg Gln Arg Gln Gln Lys Glu Glu Gln Lys Ile Ile
                 245                 250                 255
Leu Gly Lys Gly Lys Ser Arg Pro Lys Leu Ser Phe Ser Leu Lys
                 260                 265                 270
Thr Gln Asp

<210> 12
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<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2197211CD1

<400> 12
Met Glu Lys Met Leu Glu Cys Ala Phe Ile Val Leu Trp Leu Gln
1 5 10 15
Leu Gly Trp Leu Ser Gly Glu Asp Gln Val Thr Gln Ser Pro Glu
20 25 30
Ala Leu Arg Leu Gln Glu Gly Glu Ser Ser Ser Leu Asn Cys Ser
35 40 45
Tyr Thr Val Ser Gly Leu Arg Gly Leu Phe Trp Tyr Arg Gln Asp
50 55 60
Pro Gly Lys Gly Pro Glu Phe Leu Phe Thr Leu Tyr Ser Ala Gly
65 70 75
Glu Glu Lys Glu Lys Glu Arg Leu Lys Ala Thr Leu Thr Lys Lys
80 85 90
Glu Ser Phe Leu His Ile Thr Ala Pro Lys Pro Glu Asp Ser Ala
95 100 105
Ser Tyr Leu Cys Ala Val Gln Gly Gly Ile Gly Asn Val Leu His
110 115 120
Cys Gly Ser Gly Thr Gln Val Val Val Leu Pro His Ile Arg Asp
125 130 135
Pro Gly Pro Ala Val
140

<210> 13
<211> 479
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2263653CD1

<400> 13
Met Ala Val Leu Gly Val Gln Leu Val Val Thr Leu Leu Thr Ala
1 5 10 15
Thr Leu Met His Arg Leu Ala Pro His Cys Ser Phe Ala Arg Trp
20 25 30
Leu Leu Cys Asn Gly Ser Leu Phe Arg Tyr Lys His Pro Ser Glu
35 40 45
Glu Glu Leu Arg Ala Leu Ala Gly Lys Pro Arg Pro Arg Gly Arg
50 55 60
Lys Glu Arg Trp Ala Asn Gly Leu Ser Glu Glu Lys Pro Leu Ser
65 70 75
Val Pro Arg Asp Ala Pro Phe Gln Leu Glu Thr Cys Pro Leu Thr
80 85 90
Thr Val Asp Ala Leu Val Leu Arg Phe Phe Leu Glu Tyr Gln Trp
95 100 105
Phe Val Asp Phe Ala Val Tyr Ser Gly Gly Val Tyr Leu Phe Thr
110 115 120
Glu Ala Tyr Tyr Tyr Met Leu Gly Pro Ala Lys Glu Thr Asn Ile
125 130 135
Ala Val Phe Trp Cys Leu Leu Thr Val Thr Phe Ser Ile Lys Met
140 145 150
Phe Leu Thr Val Thr Arg Leu Tyr Phe Ser Ala Glu Glu Gly Gly
155 160 165
Glu Arg Ser Val Cys Leu Thr Phe Ala Phe Leu Phe Leu Leu Leu
170 175 180
Ala Met Leu Val Gln Val Val Arg Glu Glu Thr Leu Glu Leu Gly

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                185                 190                 195
Leu Glu Pro Gly Leu Ala Ser Met Thr Gln Asn Leu Glu Pro Leu
                200                 205                 210
Leu Lys Lys Gln Gly Trp Asp Trp Ala Leu Pro Val Ala Lys Leu
                215                 220                 225
Ala Ile Arg Val Gly Leu Ala Val Val Gly Ser Val Leu Gly Ala
                230                 235                 240
Phe Leu Thr Phe Pro Gly Leu Arg Leu Ala Gln Thr His Arg Asp
                245                 250                 255
Ala Leu Thr Met Ser Glu Asp Arg Pro Met Leu Gln Phe Leu Leu
                260                 265                 270
His Thr Ser Phe Leu Ser Pro Leu Phe Ile Leu Trp Leu Trp Thr
                275                 280                 285
Lys Pro Ile Ala Arg Asp Phe Leu His Gln Pro Pro Phe Gly Glu
                290                 295                 300
Thr Arg Phe Ser Leu Leu Ser Asp Ser Ala Phe Asp Ser Gly Arg
                305                 310                 315
Leu Trp Leu Leu Val Val Leu Cys Leu Leu Arg Leu Ala Val Thr
                320                 325                 330
Arg Pro His Leu Gln Ala Tyr Leu Cys Leu Ala Lys Ala Arg Val
                335                 340                 345
Glu Gln Leu Arg Arg Glu Ala Gly Arg Ile Glu Ala Arg Glu Ile
                350                 355                 360
Gln Gln Arg Val Val Arg Val Tyr Cys Tyr Val Thr Val Val Ser
                365                 370                 375
Leu Gln Tyr Leu Thr Pro Leu Ile Leu Thr Leu Asn Cys Thr Leu
                380                 385                 390
Leu Leu Lys Thr Leu Gly Gly Tyr Ser Trp Gly Leu Gly Pro Ala
                395                 400                 405
Pro Leu Leu Ser Pro Asp Pro Ser Ser Ala Ser Ala Ala Pro Ile
                410                 415                 420
Gly Ser Gly Glu Asp Glu Val Gln Gln Thr Ala Ala Arg Ile Ala
                425                 430                 435
Gly Ala Leu Gly Gly Leu Leu Thr Pro Leu Phe Leu Arg Gly Val
                440                 445                 450
Leu Ala Tyr Leu Ile Trp Trp Thr Ala Ala Cys Gln Leu Leu Ala
                455                 460                 465
Ser Leu Phe Gly Leu Tyr Phe His Gln His Leu Ala Gly Ser
                470                 475
<210> 14
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2504590CD1

<400> 14
Met Pro Arg Leu Lys Asp Pro Phe Phe Cys Tyr Gln Met Glu Ser
  1               5                  10                  15
His Cys Val Pro Arg Leu Glu Cys Ser Gly Ala Ile Ser Thr His
                20                  25                  30
Cys Lys Leu Cys Leu Pro Gly Ser Arg His Ser Pro Ala Ser Gly
                35                  40                  45
Ser Arg Val Ala Gly Thr Thr Gly Ala Arg His His Ser Trp Leu
                50                  55                  60
Ile Leu Phe Val Phe Ser Val Glu Thr Gly Tyr His His Val Ser
                65                  70                  75
Gln Asp Gly Leu Asp Leu Pro Asp Leu Val Ile Arg Pro Pro Gln
                80                  85                  90
Ser Pro Lys Val Leu Gly Leu Gln Ala
                95
<210> 15
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<211> 349
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2529619CD1

<400> 15
Met Ser Ser Glu Met Val Lys Asn Gln Thr Met Val Thr Glu Phe
1 5 10 15
Leu Leu Leu Gly Phe Leu Leu Gly Pro Arg Ile Gln Met Leu Leu
20 25 30
Phe Gly Leu Phe Ser Leu Phe Tyr Val Phe Thr Leu Leu Gly Asn
35 40 45
Gly Thr Ile Leu Gly Leu Ile Ser Leu Asp Ser Arg Leu His Thr
50 55 60
Pro Met Tyr Phe Phe Leu Ser His Leu Ala Val Val Asn Ile Ala
65 70 75
Tyr Ala Cys Asn Thr Val Pro Gln Met Leu Val Asn Leu Leu His
80 85 90
Pro Ala Lys Pro Ile Ser Phe Ala Gly Cys Met Thr Thr Thr Phe
95 100 105
Leu Phe Leu Ser Phe Ala His Thr Glu Cys Leu Leu Leu Val Leu
110 115 120
Met Ser Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg Tyr
125 130 135
Phe Ile Ile Met Thr Trp Lys Val Cys Ile Thr Leu Ala Ile Thr
140 145 150
Ser Trp Thr Cys Gly Ser Leu Leu Ala Met Val His Val Ser Leu
155 160 165
Ile Leu Arg Leu Pro Phe Cys Gly Pro Arg Glu Ile Asn His Phe
170 175 180
Phe Cys Glu Ile Leu Ser Val Leu Arg Leu Ala Cys Ala Asp Thr
185 190 195
Trp Leu Asn Gln Val Val Ile Phe Ala Ala Cys Met Phe Ile Leu
200 205 210
Val Gly Pro Leu Cys Leu Val Leu Val Ser Tyr Ser His Ile Leu
215 220 225
Ala Ala Ile Leu Arg Ile Gln Ser Gly Glu Gly Arg Arg Lys Ala
230 235 240
Phe Ser Thr Cys Ser Ser His Leu Cys Val Val Gly Leu Phe Phe
245 250 255
Gly Ser Ala Ile Val Met Tyr Met Ala Pro Lys Ser Arg His Pro
260 265 270
Glu Glu Gln Gln Lys Val Leu Phe Leu Phe Tyr Ser Ser Phe Asn
275 280 285
Pro Met Leu Asn Pro Leu Ile Tyr Asn Leu Arg Asn Val Glu Val
290 295 300
Arg Cys Pro Glu Glu Ser Thr Val Gln Glu Lys Ser Phe Leu Arg
305 310 315
Gly Val Thr Phe Glu Leu Pro Ala Ser Val Val Thr Trp Thr Leu
320 325 330
Asp Ala Gln Leu Leu Pro Gln Ser Arg Lys Val Tyr Phe Ser Leu
335 340 345
Ser Val Leu Tyr

<210> 16
<211> 373
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: 5467661CD1

<400> 16
Met Asp Thr Leu Glu Glu Val Thr Trp Ala Asn Gly Ser Thr Ala
1 5 10 15
Leu Pro Pro Pro Leu Ala Pro Asn Ile Ser Val Pro His Arg Cys
20 25 30
Leu Leu Leu Leu Tyr Glu Asp Ile Gly Thr Ser Arg Val Arg Tyr
35 40 45
Trp Asp Leu Leu Leu Leu Ile Pro Asn Val Leu Phe Leu Ile Phe
50 55 60
Leu Leu Trp Lys Leu Pro Ser Ala Arg Ala Lys Ile Arg Ile Thr
65 70 75
Ser Ser Pro Ile Phe Ile Thr Phe Tyr Ile Leu Val Phe Val Val
80 85 90
Ala Leu Val Gly Ile Ala Arg Ala Val Val Ser Met Thr Val Ser
95 100 105
Thr Ser Asn Ala Ala Thr Val Ala Asp Lys Ile Leu Trp Glu Ile
110 115 120
Thr Arg Phe Phe Leu Leu Ala Ile Glu Leu Ser Val Ile Ile Leu
125 130 135
Gly Leu Ala Phe Gly His Leu Glu Ser Lys Ser Ser Ile Lys Arg
140 145 150
Val Leu Ala Ile Thr Thr Val Leu Ser Leu Ala Tyr Ser Val Thr
155 160 165
Gln Gly Thr Leu Glu Ile Leu Tyr Pro Asp Ala His Leu Ser Ala
170 175 180
Glu Asp Phe Asn Ile Tyr Gly His Gly Gly Arg Gln Phe Trp Leu
185 190 195
Val Ser Ser Cys Phe Phe Phe Leu Val Tyr Ser Leu Val Val Ile
200 205 210
Leu Pro Lys Thr Pro Leu Lys Glu Arg Ile Ser Leu Pro Ser Arg
215 220 225
Arg Ser Phe Tyr Val Tyr Ala Gly Ile Leu Ala Leu Leu Asn Leu
230 235 240
Leu Gln Gly Leu Gly Ser Val Leu Leu Cys Phe Asp Ile Ile Glu
245 250 255
Gly Leu Cys Cys Val Asp Ala Thr Thr Phe Leu Tyr Phe Ser Phe
260 265 270
Phe Ala Pro Leu Ile Tyr Val Ala Phe Leu Arg Gly Phe Phe Gly
275 280 285
Ser Glu Pro Lys Ile Leu Phe Ser Tyr Lys Cys Gln Val Asp Glu
290 295 300
Thr Glu Glu Pro Asp Val His Leu Pro Gln Pro Tyr Ala Val Ala
305 310 315
Arg Arg Glu Gly Leu Glu Ala Ala Gly Ala Ala Gly Ala Ser Ala
320 325 330
Ala Ser Tyr Ser Ser Thr Gln Phe Asp Ser Ala Gly Gly Val Ala
335 340 345
Tyr Leu Asp Asp Ile Ala Ser Met Pro Cys His Thr Gly Ser Ile
350 355 360
Asn Ser Thr Asp Ser Glu Arg Trp Lys Ala Ile Asn Ala
365 370

<210> 17
<211> 353
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 229740CD1

<400> 17
Met Leu Lys Met Met Glu Val Tyr Lys Glu Pro Arg Glu Gln Pro

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  1               5                  10                  15
Ile Phe Thr Thr Arg Ala His Val Phe Gln Ile Asp Pro Asn Thr
                20                  25                  30
Lys Lys Asn Trp Met Pro Ala Ser Lys Gln Ala Val Thr Val Ser
                35                  40                  45
Tyr Phe Tyr Asp Val Thr Arg Asn Ser Tyr Arg Ile Ile Ser Val
                50                  55                  60
Asp Gly Ala Lys Val Ile Ile Asn Ser Thr Ile Thr Pro Asn Met
                65                  70                  75
Thr Phe Thr Asn Thr Ser Gln Thr Ser Gly Gln Trp Ala Asp Ser
                80                  85                  90
Arg Ala Asn Thr Val Phe Gly Leu Gly Phe Ser Ser Glu Gln Gln
                95                 100                 105
Leu Thr Lys Phe Ala Glu Lys Phe Gln Glu Val Lys Glu Ala Ala
               110                 115                 120
Lys Ile Ala Lys Asp Lys Thr Gln Glu Lys Ile Glu Thr Ser Ser
               125                 130                 135
Asn His Ser Gln Ala Ser Ser Val Asn Gly Thr Asp Asp Glu Lys
               140                 145                 150
Ala Ser His Ala Gly Pro Ala Asn Thr His Leu Lys Ser Glu Asn
               155                 160                 165
Asp Lys Leu Lys Ile Ala Leu Thr Gln Ser Ala Ala Asn Val Lys
               170                 175                 180
Lys Trp Glu Ile Glu Leu Gln Thr Leu Arg Glu Ser Asn Ala Arg
               185                 190                 195
Leu Thr Thr Ala Leu Gln Glu Ser Ala Ala Ser Val Glu Gln Trp
               200                 205                 210
Lys Arg Gln Phe Ser Ile Cys His Asp Glu Asn Asp Gln Leu Arg
               215                 220                 225
Asn Lys Ile Asp Glu Leu Glu Glu Gln Cys Ser Glu Ile Asn Arg
               230                 235                 240
Glu Lys Glu Lys Asn Thr Gln Leu Lys Arg Arg Ile Glu Glu Leu
               245                 250                 255
Glu Ala Glu Leu Arg Glu Lys Glu Thr Glu Leu Lys Asp Leu Arg
               260                 265                 270
Lys Gln Ser Glu Ile Ile Pro Gln Leu Met Ser Glu Cys Glu Tyr
               275                 280                 285
Val Ser Glu Lys Leu Glu Ala Ala Glu Arg Asp Asn Gln Asn Leu
               290                 295                 300
Glu Asp Lys Val Arg Ser Leu Lys Thr Asp Ile Glu Glu Ser Lys
               305                 310                 315
Tyr Arg Gln Arg His Leu Lys Val Glu Leu Lys Ser Phe Leu Glu
               320                 325                 330
Val Leu Asp Gly Lys Ile Asp Asp Leu His Asp Phe Arg Arg Gly
               335                 340                 345
Leu Ser Lys Leu Gly Thr Asp Asn
               350
<210> 18
<211> 441
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1317467CD1

<400> 18
Met Leu Leu Pro Gly Arg Ala Arg Gln Pro Pro Thr Pro Gln Pro
  1               5                  10                  15
Val Gln His Pro Gly Leu Arg Arg Gln Val Glu Pro Pro Gly Gln
                20                  25                  30
Leu Leu Arg Leu Phe Tyr Cys Thr Val Leu Val Cys Ser Lys Glu
                35                  40                  45
Ile Ser Ala Leu Thr Asp Phe Ser Gly Tyr Leu Thr Lys Leu Leu
```

50 55 60
Gln Asn His Thr Thr Tyr Ala Cys Asp Gly Asp Tyr Leu Asn Leu
65 70 75
Gln Cys Pro Arg His Ser Thr Ile Ser Val Gln Ser Ala Phe Tyr
80 85 90
Gly Gln Asp Tyr Gln Met Cys Ser Ser Gln Lys Pro Ala Ser Gln
95 100 105
Arg Glu Asp Ser Leu Thr Cys Val Ala Ala Thr Thr Phe Gln Lys
110 115 120
Val Leu Asp Glu Cys Gln Asn Gln Arg Ala Cys His Leu Leu Val
125 130 135
Asn Ser Arg Val Phe Gly Pro Asp Leu Cys Pro Gly Ser Ser Lys
140 145 150
Tyr Leu Leu Val Ser Phe Lys Cys Gln Pro Asn Glu Leu Lys Asn
155 160 165
Lys Thr Val Cys Glu Asp Gln Glu Leu Lys Leu His Cys His Glu
170 175 180
Ser Lys Phe Leu Asn Ile Tyr Ser Ala Thr Tyr Gly Arg Arg Thr
185 190 195
Gln Glu Arg Asp Ile Cys Ser Ser Lys Ala Glu Arg Leu Pro Pro
200 205 210
Phe Asp Cys Leu Ser Tyr Ser Ala Leu Gln Val Leu Ser Arg Arg
215 220 225
Cys Tyr Gly Lys Gln Arg Cys Lys Ile Ile Val Asn Asn His His
230 235 240
Phe Gly Ser Pro Cys Leu Pro Gly Val Lys Lys Tyr Leu Thr Val
245 250 255
Thr Tyr Ala Cys Val Pro Lys Asn Ile Leu Thr Ala Ile Asp Pro
260 265 270
Ala Ile Ala Asn Leu Lys Pro Ser Leu Lys Gln Lys Asp Gly Glu
275 280 285
Tyr Gly Ile Asn Phe Asp Pro Ser Gly Ser Lys Val Leu Arg Lys
290 295 300
Asp Gly Ile Leu Val Ser Asn Ser Leu Ala Ala Phe Ala Tyr Ile
305 310 315
Arg Ala His Pro Glu Arg Ala Ala Leu Leu Phe Val Ser Ser Val
320 325 330
Cys Ile Gly Leu Ala Leu Thr Leu Cys Ala Leu Val Ile Arg Glu
335 340 345
Ser Cys Ala Lys Asp Phe Arg Asp Leu Gln Leu Gly Arg Glu Gln
350 355 360
Leu Val Pro Gly Ser Asp Lys Val Glu Glu Asp Ser Glu Asp Glu
365 370 375
Glu Glu Glu Glu Asp Pro Ser Glu Ser Asp Phe Pro Gly Glu Leu
380 385 390
Ser Gly Phe Cys Arg Thr Ser Tyr Pro Ile Tyr Ser Ser Ile Glu
395 400 405
Ala Ala Glu Leu Ala Glu Arg Ile Glu Arg Arg Glu Gln Ile Ile
410 415 420
Gln Glu Ile Trp Met Asn Ser Gly Leu Asp Thr Ser Leu Pro Arg
425 430 435
Asn Met Gly Gln Phe Tyr
440

<210> 19
<211> 310
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2279267CD1

<400> 19
Met Gly Asp Asn Ile Thr Ser Ile Thr Glu Phe Leu Leu Leu Gly

```
  1               5                  10                  15
Phe Pro Val Gly Pro Arg Ile Gln Met Leu Leu Phe Gly Leu Phe
                20                  25                  30
Ser Leu Phe Tyr Val Phe Thr Leu Leu Gly Asn Gly Thr Ile Leu
                35                  40                  45
Gly Leu Ile Ser Leu Asp Ser Arg Leu His Ala Pro Met Tyr Phe
                50                  55                  60
Phe Leu Ser His Leu Ala Val Val Asp Ile Ala Tyr Ala Cys Asn
                65                  70                  75
Thr Val Pro Arg Met Leu Val Asn Leu Leu His Pro Ala Lys Pro
                80                  85                  90
Ile Ser Phe Ala Gly Arg Met Met Gln Thr Phe Leu Phe Ser Thr
                95                 100                 105
Phe Ala Val Thr Glu Cys Leu Leu Leu Val Val Met Ser Tyr Asp
               110                 115                 120
Leu Tyr Val Ala Ile Cys His Pro Leu Arg Tyr Leu Ala Ile Met
               125                 130                 135
Thr Trp Arg Val Cys Ile Thr Leu Ala Val Thr Ser Trp Thr Thr
               140                 145                 150
Gly Val Leu Leu Ser Leu Ile His Leu Val Leu Leu Leu Pro Leu
               155                 160                 165
Pro Phe Cys Arg Pro Gln Lys Ile Tyr His Phe Phe Cys Glu Ile
               170                 175                 180
Leu Ala Val Leu Lys Leu Ala Cys Ala Asp Thr His Ile Asn Glu
               185                 190                 195
Asn Met Val Leu Ala Gly Ala Ile Ser Gly Leu Val Gly Pro Leu
               200                 205                 210
Ser Thr Ile Val Val Ser Tyr Met Cys Ile Leu Cys Ala Ile Leu
               215                 220                 225
Gln Ile Gln Ser Arg Glu Val Gln Arg Lys Ala Phe Cys Thr Cys
               230                 235                 240
Phe Ser His Leu Cys Val Ile Gly Leu Phe Tyr Gly Thr Ala Ile
               245                 250                 255
Ile Met Tyr Val Gly Pro Arg Tyr Gly Asn Pro Lys Glu Gln Lys
               260                 265                 270
Lys Tyr Leu Leu Leu Phe His Ser Leu Phe Asn Pro Met Leu Asn
               275                 280                 285
Pro Leu Ile Cys Ser Leu Arg Asn Ser Glu Val Lys Asn Thr Leu
               290                 295                 300
Lys Arg Val Leu Gly Val Glu Arg Ala Leu
               305                 310
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<210> 20
<211> 438
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2436258CD1

<400> 20

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Met Glu Val Gly Gly Asp Thr Ala Ala Pro Ala Pro Gly Gly Ala
  1               5                  10                  15
Glu Asp Leu Glu Asp Thr Gln Phe Pro Ser Glu Glu Ala Arg Glu
                20                  25                  30
Gly Gly Gly Val His Ala Val Pro Pro Asp Pro Glu Asp Glu Gly
                35                  40                  45
Leu Glu Glu Thr Glu Asp His Lys Leu Val Phe Leu Gln Gln Gly
                50                  55                  60
Pro Leu Leu Leu Val Ala Met Ser Arg Thr Ser Gln Ser Ala Ala
                65                  70                  75
Gln Leu Arg Gly Glu Leu Leu Ala Val His Ala Gln Ile Val Ser
                80                  85                  90
Thr Leu Thr Arg Ala Ser Val Ala Arg Ile Phe Ala His Lys Gln
```

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                    95                       100                      105
Asn Tyr Asp Leu Arg Arg Leu Leu Ala Gly Ser Glu Arg Thr Leu
                110                     115                     120
Asp Arg Leu Leu Asp Ser Met Glu Gln Asp Pro Gly Ala Leu Leu
                125                     130                     135
Leu Gly Ala Val Arg Cys Val Pro Leu Ala Arg Pro Leu Arg Asp
                140                     145                     150
Ala Leu Gly Ala Leu Leu Arg Arg Cys Thr Ala Pro Gly Leu Ala
                155                     160                     165
Leu Ser Val Leu Ala Val Gly Gly Arg Leu Ile Thr Ala Ala Gln
                170                     175                     180
Glu Arg Asn Val Leu Ala Glu Cys Arg Leu Asp Pro Ala Asp Leu
                185                     190                     195
Gln Leu Leu Leu Asp Trp Val Gly Ala Pro Ala Phe Ala Ala Gly
                200                     205                     210
Glu Ala Trp Ala Pro Val Cys Leu Pro Arg Phe Asn Pro Asp Gly
                215                     220                     225
Phe Phe Tyr Ala Tyr Val Ala Arg Leu Asp Ala Met Pro Val Cys
                230                     235                     240
Leu Leu Leu Leu Gly Thr Gln Arg Glu Ala Phe His Ala Met Ala
                245                     250                     255
Ala Cys Arg Arg Leu Val Glu Asp Gly Met His Ala Leu Gly Ala
                260                     265                     270
Met Arg Ala Leu Gly Glu Ala Ala Ser Phe Ser Asn Ala Ser Ser
                275                     280                     285
Ala Ser Ala Pro Ala Tyr Ser Val Gln Ala Val Gly Ala Pro Gly
                290                     295                     300
Leu Arg His Phe Leu Tyr Lys Pro Leu Asp Ile Pro Asp His His
                305                     310                     315
Arg Gln Leu Pro Gln Phe Thr Ser Pro Glu Leu Glu Ala Pro Tyr
                320                     325                     330
Ser Arg Glu Glu Glu Arg Gln Arg Leu Ser Asp Leu Tyr His Arg
                335                     340                     345
Leu His Ala Arg Leu His Ser Thr Ser Arg Pro Leu Arg Leu Ile
                350                     355                     360
Tyr His Val Ala Glu Lys Glu Thr Leu Leu Ala Trp Val Thr Ser
                365                     370                     375
Lys Phe Glu Leu Tyr Thr Cys Leu Ser Pro Leu Val Thr Lys Ala
                380                     385                     390
Gly Ala Ile Leu Val Val Thr Lys Leu Leu Arg Trp Val Lys Lys
                395                     400                     405
Glu Glu Asp Arg Leu Phe Ile Arg Tyr Pro Pro Lys Tyr Ser Thr
                410                     415                     420
Pro Pro Ala Thr Ser Thr Asp Gln Ala Ala His Asn Gly Leu Phe
                425                     430                     435
Thr Gly Leu
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<210> 21
<211> 357
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2681738CD1

<400> 21

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Met Ala Thr Thr Val Pro Asp Gly Cys Arg Asn Gly Leu Lys Ser
 1               5                       10                      15
Lys Tyr Tyr Arg Leu Cys Asp Lys Ala Glu Ala Trp Gly Ile Val
                20                      25                      30
Leu Glu Thr Val Ala Thr Ala Gly Val Val Thr Ser Val Ala Phe
                35                      40                      45
Met Leu Thr Leu Pro Ile Leu Val Cys Lys Val Gln Asp Ser Asn
```

```
                  50                  55                  60
Arg Arg Lys Met Leu Pro Thr Gln Phe Leu Phe Leu Leu Gly Val
                  65                  70                  75
Leu Gly Ile Phe Gly Leu Thr Phe Ala Phe Ile Ile Gly Leu Asp
                  80                  85                  90
Gly Ser Thr Gly Pro Thr Arg Phe Phe Leu Phe Gly Ile Leu Phe
                  95                 100                 105
Ser Ile Cys Phe Ser Cys Leu Leu Ala His Ala Val Ser Leu Thr
                 110                 115                 120
Lys Leu Val Arg Gly Arg Lys Pro Leu Ser Leu Leu Val Ile Leu
                 125                 130                 135
Gly Leu Ala Val Gly Phe Ser Leu Val Gln Asp Val Ile Ala Ile
                 140                 145                 150
Glu Tyr Ile Val Leu Thr Met Asn Arg Thr Asn Val Asn Val Phe
                 155                 160                 165
Ser Glu Leu Ser Ala Pro Arg Arg Asn Glu Asp Phe Val Leu Leu
                 170                 175                 180
Leu Thr Tyr Val Leu Phe Leu Met Ala Leu Thr Phe Leu Met Ser
                 185                 190                 195
Ser Phe Thr Phe Cys Gly Ser Phe Thr Gly Trp Lys Arg His Gly
                 200                 205                 210
Ala His Ile Tyr Leu Thr Met Leu Leu Ser Ile Ala Ile Trp Val
                 215                 220                 225
Ala Trp Ile Thr Leu Leu Met Leu Pro Asp Phe Asp Arg Arg Trp
                 230                 235                 240
Asp Asp Thr Ile Leu Ser Ser Ala Leu Ala Ala Asn Gly Trp Val
                 245                 250                 255
Phe Leu Leu Ala Tyr Val Ser Pro Glu Phe Trp Leu Leu Thr Lys
                 260                 265                 270
Gln Arg Asn Pro Met Asp Tyr Pro Val Glu Asp Ala Phe Cys Lys
                 275                 280                 285
Pro Gln Leu Val Lys Lys Ser Tyr Gly Val Glu Asn Arg Ala Tyr
                 290                 295                 300
Ser Gln Glu Glu Ile Thr Gln Gly Phe Glu Glu Thr Gly Asp Thr
                 305                 310                 315
Leu Tyr Ala Pro Tyr Ser Thr His Phe Gln Leu Gln Asn Gln Pro
                 320                 325                 330
Pro Gln Lys Glu Phe Ser Ile Pro Arg Ala His Ala Trp Pro Ser
                 335                 340                 345
Pro Tyr Lys Asp Tyr Glu Val Lys Lys Glu Gly Ser
                 350                 355
<210> 22
<211> 1069
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2859482CD1

<400> 22
Met Asp Asp Lys Ala Ser Val Gly Lys Ile Ser Val Ser Ser Asp
  1               5                  10                  15
Ser Val Ser Thr Leu Asn Ser Glu Asp Phe Val Leu Val Ser Arg
                 20                  25                  30
Gln Gly Asp Glu Thr Pro Ser Thr Asn Asn Gly Ser Asp Asp Glu
                 35                  40                  45
Lys Thr Gly Leu Lys Ile Val Gly Asn Gly Ser Glu Gln Gln Leu
                 50                  55                  60
Gln Lys Glu Leu Ala Asp Val Leu Met Asp Pro Pro Met Asp Asp
                 65                  70                  75
Gln Pro Gly Glu Lys Glu Leu Val Lys Arg Ser Gln Leu Asp Gly
                 80                  85                  90
Glu Gly Asp Gly Pro Leu Ser Asn Gln Leu Ser Ala Ser Ser Thr
```

95 100 105
Ile Asn Pro Val Pro Leu Val Gly Leu Gln Lys Pro Glu Met Ser
110 115 120
Leu Pro Val Lys Pro Gly Gln Gly Asp Ser Glu Ala Ser Ser Pro
125 130 135
Phe Thr Pro Val Ala Asp Glu Asp Ser Val Val Phe Ser Lys Leu
140 145 150
Thr Tyr Leu Gly Cys Ala Ser Val Asn Ala Pro Arg Ser Glu Val
155 160 165
Glu Ala Leu Arg Met Met Ser Ile Leu Arg Ser Gln Cys Gln Ile
170 175 180
Ser Leu Asp Val Thr Leu Ser Val Pro Asn Val Ser Glu Gly Ile
185 190 195
Val Arg Leu Leu Asp Pro Gln Thr Asn Thr Glu Ile Ala Asn Tyr
200 205 210
Pro Ile Tyr Lys Ile Leu Phe Cys Val Arg Gly His Asp Gly Thr
215 220 225
Pro Glu Ser Asp Cys Phe Ala Phe Thr Glu Ser His Tyr Asn Ala
230 235 240
Glu Leu Phe Arg Ile His Val Phe Arg Cys Glu Ile Gln Glu Ala
245 250 255
Val Ser Arg Ile Leu Tyr Ser Phe Ala Thr Ala Phe Arg Arg Ser
260 265 270
Ala Lys Gln Thr Pro Leu Ser Ala Thr Ala Ala Pro Gln Thr Pro
275 280 285
Asp Ser Asp Ile Phe Thr Phe Ser Val Ser Leu Glu Ile Lys Glu
290 295 300
Asp Asp Gly Lys Gly Tyr Phe Ser Ala Val Pro Lys Asp Lys Asp
305 310 315
Arg Gln Cys Phe Lys Leu Arg Gln Gly Ile Asp Lys Lys Ile Val
320 325 330
Ile Tyr Val Gln Gln Thr Thr Asn Lys Glu Leu Ala Ile Glu Arg
335 340 345
Cys Phe Gly Leu Leu Leu Ser Pro Gly Lys Asp Val Arg Asn Ser
350 355 360
Asp Met His Leu Leu Asp Leu Glu Ser Met Gly Lys Ser Ser Asp
365 370 375
Gly Lys Ser Tyr Val Ile Thr Gly Ser Trp Asn Pro Lys Ser Pro
380 385 390
His Phe Gln Val Val Asn Glu Glu Thr Pro Lys Asp Lys Val Leu
395 400 405
Phe Met Thr Thr Ala Val Asp Leu Val Ile Thr Glu Val Gln Glu
410 415 420
Pro Val Arg Phe Leu Leu Glu Thr Lys Val Arg Val Cys Ser Pro
425 430 435
Asn Glu Arg Leu Phe Trp Pro Phe Ser Lys Arg Ser Thr Thr Glu
440 445 450
Asn Phe Phe Leu Lys Leu Lys Gln Ile Lys Gln Arg Glu Arg Lys
455 460 465
Asn Asn Thr Asp Thr Leu Tyr Glu Val Val Cys Leu Glu Ser Glu
470 475 480
Ser Glu Arg Glu Arg Arg Lys Thr Thr Ala Ser Pro Ser Val Arg
485 490 495
Leu Pro Gln Ser Gly Ser Gln Ser Ser Val Ile Pro Ser Pro Pro
500 505 510
Glu Asp Asp Glu Glu Glu Asp Asn Asp Glu Pro Leu Leu Ser Gly
515 520 525
Ser Gly Asp Val Ser Lys Glu Cys Ala Glu Lys Ile Leu Glu Thr
530 535 540
Trp Gly Glu Leu Leu Ser Lys Trp His Leu Asn Leu Asn Val Arg
545 550 555
Pro Lys Gln Leu Ser Ser Leu Val Arg Asn Gly Val Pro Glu Ala
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Leu Arg Gly Glu Val Trp Gln Leu Leu Ala Gly Cys His Asn Asn

575 580 585
Asp His Leu Val Glu Lys Tyr Arg Ile Leu Ile Thr Lys Glu Ser
590 595 600
Pro Gln Asp Ser Ala Ile Thr Arg Asp Ile Asn Arg Thr Phe Pro
605 610 615
Ala His Asp Tyr Phe Lys Asp Thr Gly Gly Asp Gly Gln Asp Ser
620 625 630
Leu Tyr Lys Ile Cys Lys Ala Tyr Ser Val Tyr Asp Glu Glu Ile
635 640 645
Gly Tyr Cys Gln Gly Gln Ser Phe Leu Ala Ala Val Leu Leu Leu
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His Met Pro Glu Glu Gln Ala Phe Ser Val Leu Val Lys Ile Met
665 670 675
Phe Asp Tyr Gly Leu Arg Glu Leu Phe Lys Gln Asn Phe Glu Asp
680 685 690
Leu His Cys Lys Phe Tyr Gln Leu Glu Arg Leu Met Gln Glu Tyr
695 700 705
Ile Pro Asp Leu Tyr Asn His Phe Leu Asp Ile Ser Leu Glu Ala
710 715 720
His Met Tyr Ala Ser Gln Trp Phe Leu Thr Leu Phe Thr Ala Lys
725 730 735
Phe Pro Leu Tyr Met Val Phe His Ile Ile Asp Leu Leu Leu Cys
740 745 750
Glu Gly Ile Ser Val Ile Phe Asn Val Ala Leu Gly Leu Leu Lys
755 760 765
Thr Ser Lys Asp Asp Leu Leu Leu Thr Asp Phe Glu Gly Ala Leu
770 775 780
Lys Phe Phe Arg Val Gln Leu Pro Lys Arg Tyr Arg Ser Glu Glu
785 790 795
Asn Ala Lys Lys Leu Met Glu Leu Ala Cys Asn Met Lys Ile Ser
800 805 810
Gln Lys Lys Leu Lys Lys Tyr Glu Lys Glu Tyr His Thr Met Arg
815 820 825
Glu Gln Gln Ala Gln Gln Glu Asp Pro Ile Glu Arg Phe Glu Arg
830 835 840
Glu Asn Arg Arg Leu Gln Glu Ala Asn Met Arg Leu Glu Gln Glu
845 850 855
Asn Asp Asp Leu Ala His Glu Leu Val Thr Ser Lys Ile Ala Leu
860 865 870
Arg Lys Asp Leu Asp Asn Ala Glu Glu Lys Ala Asp Ala Leu Asn
875 880 885
Lys Glu Leu Leu Met Thr Lys Gln Lys Leu Ile Asp Ala Glu Glu
890 895 900
Glu Lys Arg Arg Leu Glu Glu Glu Ser Ala Gln Leu Lys Glu Met
905 910 915
Cys Arg Arg Glu Leu Asp Lys Ala Glu Ser Glu Ile Lys Lys Asn
920 925 930
Ser Ser Ile Ile Gly Asp Tyr Lys Gln Ile Cys Ser Gln Leu Ser
935 940 945
Glu Arg Leu Glu Lys Gln Gln Thr Ala Asn Lys Val Glu Ile Glu
950 955 960
Lys Ile Arg Gln Lys Val Asp Asp Cys Glu Arg Cys Arg Glu Phe
965 970 975
Phe Asn Lys Glu Gly Arg Val Lys Gly Ile Ser Ser Thr Lys Glu
980 985 990
Val Leu Asp Glu Asp Thr Asp Glu Glu Lys Glu Thr Leu Lys Asn
995 1000 1005
Gln Leu Arg Glu Met Glu Leu Glu Leu Ala Gln Thr Lys Leu Gln
1010 1015 1020
Leu Val Glu Ala Glu Cys Lys Ile Gln Asp Leu Glu His His Leu
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Gly Leu Ala Leu Asn Glu Val Gln Ala Ala Lys Lys Thr Trp Phe
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<211> 1995
<212> DNA
<213> Homo sapiens

<220>
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<211> 2051
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<210> 25
<211> 2067
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1305513CB1

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<211> 1165
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 1876283CB1

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<211> 3523
<212> DNA
<213> Homo sapiens

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<222> 3393, 3419, 3435, 3443
<223> a, t, c, g, or other

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<211> 2179
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: P2925789CB1

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